

## Federation of Earth Science Information Partners Partnership Application

Please complete all sections to the fullest extent possible and forward completed application to: Carol Meyer, [carol.meyer@earthsciencefoundation.org](mailto:carol.meyer@earthsciencefoundation.org). If you have any questions, please contact her at 877.870.3747.

### I. CONTACT INFORMATION

#### A. Primary Contact/Principal Investigator

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#### B. Designated Assembly Representative (could be same as above)

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#### C. Other Contacts

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## II. ABOUT YOUR ORGANIZATION

### A. ORGANIZATION/DIVISION/PROJECT NAME:

Monterey Bay Aquarium Research Institute / Research and Development / Marine Metadata Interoperability Initiative (MMI)

### B. OVERVIEW OF YOUR PRIMARY ACTIVITIES (250 words or less)

The MMI goal is to promote collaborative research in the marine science domain, by simplifying the incredibly complex world of metadata into specific, straightforward guidance. MMI hopes to encourage scientists and data managers at all levels to apply good metadata practices from the start of a project, by providing the best advice and resources for data management.

MMI maintains a website to foster communication and collaboration among its hundreds of members, and provides forums for discussion of diverse topics related to marine data management. MMI develops web applications and stand-alone tools to enable sophisticated interactions across marine data systems, in particular to solve semantic heterogeneities. MMI participates in and initiates interoperability demonstrations to help deliver ocean observations to a range of consumers, utilizing a common standard specification, and to establish a robust data exchange that is not bound to any tool and adheres with the best practices of geospatial communities.

### C. Please list and briefly describe the primary product(s) or service(s) that your organization provides (will provide) to the community.

- Semantic Mediation tools. Like a semantic mediator web service to allow to query ontologies in a standard format
- Workshops to bring together understanding and agreement of concepts, controlled vocabularies and metadata services.
- Cookbooks that will served as best-practices guides for implementers
- Web site with metadata related references, guides, world-wide community events and news.
- Web site to host new projects related to earth-science interoperability
- Interoperability experiments to test and refine earth data web services and sensor web technologies.

### D. Please give a main website address for the proposed Partnership:

Web Address: <http://marinemetadata.org>

### III. HOW YOUR ORGANIZATION WILL BENEFIT FROM/CONTRIBUTE TO THE EARTH SCIENCE INFORMATION PARTNERS (ESIP) FEDERATION

- A. Describe current or anticipated users of your products and services and how you think the Federation can help you better serve this population. (200 words or less)

Web – guides: users that need more information about metadata, protocols and vocabularies.

Semantic mediation tools: users that need to map or use a web service to solve heterogeneities across vocabularies.

Web services clients: web services that users from the federation could ingest.

- B. Describe any Earth science technologies that you have developed and are willing to bring to the Federation's efforts to provide best-practices. (200 words or less)

- OOSTethys – system: provides cookbooks, templates, code in various languages and an API to set different components of an earth observing system. For example cookbook and code already exist to get data conforming to the OGC Sensor Observation Service interfaces.

- Semantic mediator web services

- Semantic mapping and ontology creation tools (VINE, Voc2OWL)

- C. Describe how your proposed membership would contribute to the efforts and the mission of one or more standing committees, working groups and/or clusters. See Page 3 for descriptions of the different activities of the various standing committees, working groups, and clusters. (200 words or less)

Information Technology and Interoperability. The MMI project will bring its expertise and tools in building Ocean Observing Systems and semantic interoperability solutions. This will help the Web Services, Semantic Web and Sensor Web clusters (as describe in the ESIP wiki).

- D. Describe your own use of Earth science information and data and how you would see this use enhanced by your partnership in the Federation. (200 words or less)

MMI is interested in participating in the three clusters: Web Services, Semantic Web and Sensor Web, since at MMI we are doing similar work (e.g. OOSTethys). We would like to improve our services and align them with best practices described in ESIP. We would also like to increase the number of people aware of and using our services.

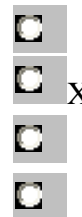
### IV. YOUR CHOICE OF MEMBERSHIP TYPE. PLEASE PICK ONE.

ESIP-I (primarily a data archive center)

ESIP-II (primarily a research center)

ESIP-III (primarily applications and education)

ESIP-IV (primarily a sponsoring member)



### V. Any other comments about your proposed membership and its relation to the Federation that you wish to provide.

**Thank you for your application for partnership in the ESIP Federation.**